

NOTE-BOOK

ANIMAL

PHYSIOLOGY

Part. II.

(Nishimura)

3
L
2

Nov. 24.
105 blank.

reversed polarity (正负电荷颠倒)



hydrozoa "♀" 下胚 150分 = 100% + 10% reversed polarity, 15% 24% 10% 15%
 100%, polarity 7 25% 10% = 100% 7 10% 7 25% 10% 10% 10% 10% 10% 10% 10% 10%



物之理，古來也。

又 站 移 + 1 包 = 44 + 4.125 平均 5 包 12.5

blm: $7^{\circ} 3' 11''$ lateral Regⁿ + 2.

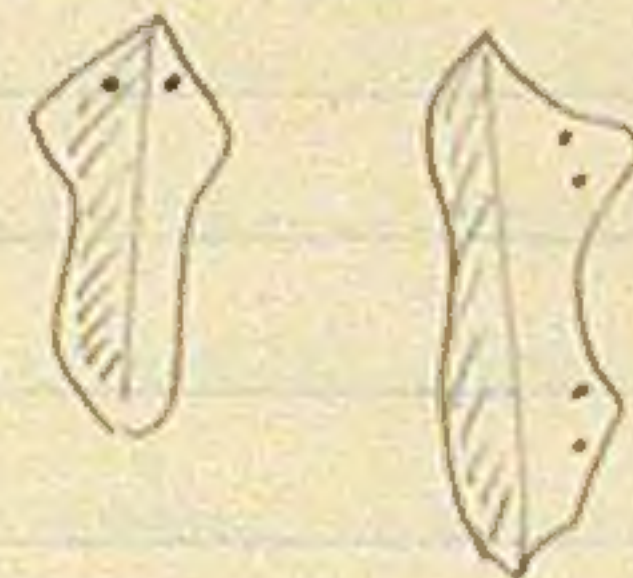
7P. 未定0A. 02. oblique. 40-50% polarity, 2 4 2 1 4 3 4 2 1

21. $P_{\text{eff}} \rightarrow 0 = \text{Einfach}$



和左列字(十魚，反尾)類

47 292w. 2000 fee end

$$1.27 \text{ (ex. vii.)} \quad 2.5 + 4p = 5.5p$$


腹下二ツは骨の下オケバ二ツ、腹が出事。3ツ、腹筋。ventral

code 6: 非零 = 主序 + 1 ~ 4 + 7.

15/10: levels 6 & 7 ventral

code 7 tp. 17 7 7 7 7 7 cut end

* regeneration, start + " + 4u7 + 50m.



tadpole

五

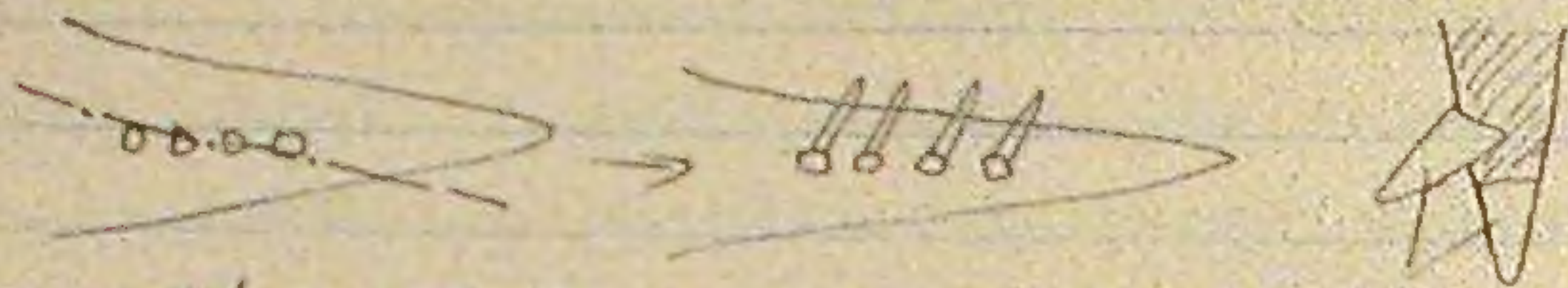


earthworms



earthworms

super key. 比如 $R_1 R_2 \rightarrow \frac{R_1}{\text{key}} = R_2$ 次 1 @ 1 个 + 1 @ 过 6 个



♂2, vertebrae 8" lat and 1 1/2" x 1 1/2" x 3/4" x 5" Tail

donde regⁿ D: bot / st = arthropoda / 8 lms = 1. lit = 100 p. 51 d'a



tubifex (水虫) 蛭 modusa

又兩頭，蛇。兩頭，龜，十頭。是古，四，
對，蛇，二，*atahism* 外，云，人，二，

又, 兩類蛇 + 蕨類 / Y 支 形 的 力
有 + 1 " 2 " 3 " 4 " 5 " 6 " 7 " 8 " 9 " 10 " 11 " 12 " 13 " 14 " 15 " 16 " 17 " 18 " 19 " 20 " 21 " 22 " 23 " 24 " 25 " 26 " 27 " 28 " 29 " 30 " 31 " 32 " 33 " 34 " 35 " 36 " 37 " 38 " 39 " 40 " 41 " 42 " 43 " 44 " 45 " 46 " 47 " 48 " 49 " 50 " 51 " 52 " 53 " 54 " 55 " 56 " 57 " 58 " 59 " 60 " 61 " 62 " 63 " 64 " 65 " 66 " 67 " 68 " 69 " 70 " 71 " 72 " 73 " 74 " 75 " 76 " 77 " 78 " 79 " 80 " 81 " 82 " 83 " 84 " 85 " 86 " 87 " 88 " 89 " 90 " 91 " 92 " 93 " 94 " 95 " 96 " 97 " 98 " 99 " 100 " 101 " 102 " 103 " 104 " 105 " 106 " 107 " 108 " 109 " 110 " 111 " 112 " 113 " 114 " 115 " 116 " 117 " 118 " 119 " 120 " 121 " 122 " 123 " 124 " 125 " 126 " 127 " 128 " 129 " 130 " 131 " 132 " 133 " 134 " 135 " 136 " 137 " 138 " 139 " 140 " 141 " 142 " 143 " 144 " 145 " 146 " 147 " 148 " 149 " 150 " 151 " 152 " 153 " 154 " 155 " 156 " 157 " 158 " 159 " 160 " 161 " 162 " 163 " 164 " 165 " 166 " 167 " 168 " 169 " 170 " 171 " 172 " 173 " 174 " 175 " 176 " 177 " 178 " 179 " 180 " 181 " 182 " 183 " 184 " 185 " 186 " 187 " 188 " 189 " 190 " 191 " 192 " 193 " 194 " 195 " 196 " 197 " 198 " 199 " 200 " 201 " 202 " 203 " 204 " 205 " 206 " 207 " 208 " 209 " 210 " 211 " 212 " 213 " 214 " 215 " 216 " 217 " 218 " 219 " 220 " 221 " 222 " 223 " 224 " 225 " 226 " 227 " 228 " 229 " 230 " 231 " 232 " 233 " 234 " 235 " 236 " 237 " 238 " 239 " 240 " 241 " 242 " 243 " 244 " 245 " 246 " 247 " 248 " 249 " 250 " 251 " 252 " 253 " 254 " 255 " 256 " 257 " 258 " 259 " 260 " 261 " 262 " 263 " 264 " 265 " 266 " 267 " 268 " 269 " 270 " 271 " 272 " 273 " 274 " 275 " 276 " 277 " 278 " 279 " 280 " 281 " 282 " 283 " 284 " 285 " 286 " 287 " 288 " 289 " 290 " 291 " 292 " 293 " 294 " 295 " 296 " 297 " 298 " 299 " 300 " 301 " 302 " 303 " 304 " 305 " 306 " 307 " 308 " 309 " 310 " 311 " 312 " 313 " 314 " 315 " 316 " 317 " 318 " 319 " 320 " 321 " 322 " 323 " 324 " 325 " 326 " 327 " 328 " 329 " 330 " 331 " 332 " 333 " 334 " 335 " 336 " 337 " 338 " 339 " 340 " 341 " 342 " 343 " 344 " 345 " 346 " 347 " 348 " 349 " 350 " 351 " 352 " 353 " 354 " 355 " 356 " 357 " 358 " 359 " 360 " 361 " 362 " 363 " 364 " 365 " 366 " 367 " 368 " 369 " 370 " 371 " 372 " 373 " 374 " 375 " 376 " 377 " 378 " 379 " 380 " 381 " 382 " 383 " 384 " 385 " 386 " 387 " 388 " 389 " 390 " 391 " 392 " 393 " 394 " 395 " 396 " 397 " 398 " 399 " 400 " 401 " 402 " 403 " 404 " 405 " 406 " 407 " 408 " 409 " 410 " 411 " 412 " 413 " 414 " 415 " 416 " 417 " 418 " 419 " 420 " 421 " 422 " 423 " 424 " 425 " 426 " 427 " 428 " 429 " 430 " 431 " 432 " 433 " 434 " 435 " 436 " 437 " 438 " 439 " 440 " 441 " 442 " 443 " 444 " 445 " 446 " 447 " 448 " 449 " 450 " 451 " 452 " 453 " 454 " 455 " 456 " 457 " 458 " 459 " 460 " 461 " 462 " 463 " 464 " 465 " 466 " 467 " 468 " 469 " 470 " 471 " 472 " 473 " 474 " 475 " 476 " 477 " 478 " 479 " 480 " 481 " 482 " 483 " 484 " 485 " 486 " 487 " 488 " 489 " 490 " 491 " 492 " 493 " 494 " 495 " 496 " 497 " 498 " 499 " 500 " 501 " 502 " 503 " 504 " 505 " 506 " 507 " 508 " 509 " 510 " 511 " 512 " 513 " 514 " 515 " 516 " 517 " 518 " 519 " 520 " 521 " 522 " 523 " 524 " 525 " 526 " 527 " 528 " 529 " 530 " 531 " 532 " 533 " 534 " 535 " 536 " 537 " 538 " 539 " 540 " 541 " 542 " 543 " 544 " 545 " 546 " 547 " 548 " 549 " 550 " 551 " 552 " 553 " 554 " 555 " 556 " 557 " 558 " 559 " 560 " 561 " 562 " 563 " 564 " 565 " 566 " 567 " 568 " 569 " 570 " 571 " 572 " 573 " 574 " 575 " 576 " 577 " 578 " 579 " 580 " 581 " 582 " 583 " 584 " 585 " 586 " 587 " 588 " 589 " 590 " 591 " 592 " 593 " 594 " 595 " 596 " 597 " 598 " 599 " 600 " 601 " 602 " 603 " 604 " 605 " 606 " 607 " 608 " 609 " 610 " 611 " 612 " 613 " 614 " 615 " 616 " 617 " 618 " 619 " 620 " 621 " 622 " 623 " 624 " 625 " 626 " 627 " 628 " 629 " 630 " 631 " 632 " 633 " 634 " 635 " 636 " 637 " 638 " 639 " 640 " 641 " 642 " 643 " 644 " 645 " 646 " 647 " 648 " 649 " 650 " 651 " 652 " 653 " 654 " 655 " 656 " 657 " 658 " 659 " 660 " 661 " 662 " 663 " 664 " 665 " 666 " 667 " 668 " 669 " 670 " 671 " 672 " 673 " 674 " 675 " 676 " 677 " 678 " 679 " 680 " 681 " 682 " 683 " 684 " 685 " 686 " 687 " 688 " 689 " 690 " 691 " 692 " 693 " 694 " 695 " 696 " 697 " 698 " 699 " 700 " 701 " 702 " 703 " 704 " 705 " 706 " 707 " 708 " 709 " 710 " 711 " 712 " 713 " 714 " 715 " 716 " 717 " 718 " 719 " 720 " 721 " 722 " 723 " 724 " 725 " 726 " 727 " 728 " 729 " 730 " 731 " 732 " 733 " 734 " 735 " 736 " 737 " 738 " 739 " 740 " 741 " 742 " 743 " 744 " 745 " 746 " 747 " 748 " 749 " 750 " 751 " 752 " 753 " 754 " 755 " 756 " 757 " 758 " 759 " 760 " 761 " 762 " 763 " 764 " 765 " 766 " 767 " 768 " 769 " 770 " 771 " 772 " 773 " 774 " 775 " 776 " 777 " 778 " 779 " 780 " 781 " 782 " 783 " 784 " 785 " 786 " 787 " 788 " 789 " 790 " 791 " 792 " 793 " 794 " 795 " 796 " 797 " 798 " 799 " 800 " 801 " 802 " 803 " 804 " 805 " 806 " 807 " 808 " 809 " 810 " 811 " 812 " 813 " 814 " 815 " 816 " 817 " 818 " 819 " 820 " 821 " 822 " 823 " 824 " 825 " 826 " 827 " 828 " 829 " 830 " 831 " 832 " 833 " 834 " 835 " 8

24. $L^1(\mathbb{R}) \cap L^\infty(\mathbb{R}) =$ geom layer \rightarrow thin

double structure by regⁿ → 2n → 2 cells → 2 identical
twins → 2n = 1(50), 1p + 1q = 2n → 2x = mess^d to "mechanical" & c
at 1st → 2n, 2c = 2 → 2 → 2, standard, egg, φ, —, keim, anlage, embryo

[illegible]

* 198507. =? In 1971 we found - 答 答 in "double structure"
retardation of growth. 在 1971 年 1 月 2 日 发现 在 1971 年 1 月 2 日

atarizm, reg.ⁿ = 5/10 to 1/2, x-1 = 1 ROR + tp + antenna → 1/8 s / 1/8 y.

antenna = 触角 appendage, ancestral form + atavism = 返老还童
3 对触角。臂，再生，regeneration, 叶 - phylogenetically = primitive form
7 对 DII. 又 insect 的 tibia / 腿 → 减少的合。又 7 对 / 6, 5 步 + 1' % atavism =
PILTA + 1 步 → 1 步的合 + 持出 2 步。 & evorness of atavism 在 40-100 年 + 9.

compensatory growth

[illegible][illegible]

Injury + Regeneration 11/17/20

Injury + Regeneration の関係 $\text{reg}^n + \text{injury} = \text{counteract}$

② ⑤は x_1 と x_2 の対称性 $\Rightarrow \text{Liouville (1942), Bonnet (1945)}$, ④
 $\hat{x} = 0$ の場合, Darwin の natural selection theory - ①と ⑥の Cuenot,
 Lang は ③と ④の比較. Weismann も ②と ③. ⑤は ①と ②の中間的性質.

[illegible]


muscle. 347 serve as reg. power $\bar{x} = 33 \text{ v}$. $\bar{x} \pm 1.96 \text{ s.e.} = 33 \pm 4.7 \text{ v}$.

Explantation tissue-culture. ^{Fe₁} morgan, - ~~to~~ ^{to} culture-medium

Ex-11: Harrison 19. 3" 之 7+1/2 吋 梨/條=1/3 吋 頂由, 苦 13 吋. 54 吋 heart;

~~224~~ born: amphibia - embryo - 185.7 explantat in 7. 210 2.17

同前 technique, 但读法不同。少是， $\text{波中} = \frac{\lambda}{2}$, $\text{力} > 10^6$



leucocyte & free cell, ③ 1/2. meloblast (most 4 cells), ③ 1/2 (blastomere,

• 50 mg division + 10 diplo. 16-17% spermatogonia (16 & 17%).

It is the disturbance of the adult tissue

去1942年12月3日. 2. J. ex plantat 1月1日, 1943年1月1日. normal process. 11月1日

Transplantation überpflanzung. 移植 "いしょく" in. generation, explantation.

1) autoplasmic Transp. 10: 14p-36f.

2) Homoioplastic Transp. Dis. sp. 1 ♀ individual to 5.

3) Heterop. Transp. 89 sp.

[illegible]

16. 4. 12. 7. 大+1141 = 7511/1585. 21. 7. 5. 11. 2. 5. 大+1217. Prof. ~~21. 7. 5. 11. 2. 5.~~ 12. 12.

Σ と Π の interlage + Σ は、両方 Π の component + Σ 。 \Rightarrow (7) 同様に大抵中位は 17

Parahiosis + 2. lower animal in the top of the box. 243

11. $R^0 \omega_X = 1$ 中 $=$ 流 λ の ω_X 中 λ の ω_X . $\omega_X = \omega_X + \omega_X$. $\omega_X = \omega_X + \omega_X$.



み、す、如十、箱、丁、建、丁、香、餅、如十

1. 外子常以色字相混。未始不有也。

1. 銅線デカワテオウ。句ハ、チニツラスル

27. 21 to 25 fuse with 11 historical change

1. 大板 Regeneration 11) 5 = 12.34. 2. 接骨石生草 若 1 個板 5 元 1.31 = 22.5. 13

原着及 M. Tsai - transplantat (p/prop), 1/2 的 Unterlage - p. 11 第 7 页, 11 页, 1/2 页

27 Roux (1895) "functionare transp. 2. Implantation 107-5" i.e.

physiol opial solution - 生理食鹽水
mucus membrane - 黏膜 = 分泌粘液
Hippel (1877) ~~研究~~ 研究 vagina, rectum, intestine,
wall of the stomach - 胃壁
Transp. 20713. peristaltic movement - 蠕動
first pharynx - 咽部
long bone - 長骨

parahiosis + 27. 異, 10界, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844,

[illegible]

is full grown animal, 19 x 1 kg - 2.12 g - very slender 1200 m energetic
 1 - 2 - 74 m. is 1 kg - 25 = 191600 cal 12 - 18 x 1200-1300 g 72 x 700 cal
 Friedenthal (1910) 1/3 24% duration of life & 'cephalization factor'.
 parallel 1910? 21 C.f. + 2000 Brain weight Total mass of body protoplasm 1x14 12 wt.
 2000 C. index 1200. duration of life.

mouse	0.045	6 years.
Rabbit	1.066	8
marmoset.	.216	12.
Deer	.35	15
man	2.7.	100

[illegible]

Janisch (1913) = Brückhoff
Brückhoff, Stolte (1912), Nais
variabilis, Fr. Spemann (1923)
- ~~rather~~ Rotiprularis 5 + 12
causes of natural death
1. 1st, senescence, death,
involuntary + 11. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 816. 817. 818. 819. 820. 821. 822. 823. 824. 825. 826. 827. 828. 829

1. Reproduction = $\frac{1}{2} \times \frac{1}{2}$. Goethe (1883). Reproduction $\frac{1}{2} \times \frac{1}{2}$ energy $\frac{1}{2} \times \frac{1}{2}$
 2. Lower animals $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ age $\frac{1}{2} \times \frac{1}{2}$ death $\frac{1}{2} \times \frac{1}{2}$ reproduction
 3. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ Weissmann 1882. Reproduction $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$
 4. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ species = $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ natural selection $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$
 5. duration of life $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ natural $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ adaptation $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$
 6. $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ natural selection $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ chance $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$ $\frac{1}{2} \times \frac{1}{2} \times \frac{1}{2} \times \frac{1}{2}$

2. Wearing = 穿着, 衣服 LoEe (1851, 84), + Osler, 26月6日27日, Magnus-Lervy (1907) e wearing - 穿着, fertilized egg - 受精卵, potential energy - 潜在能量, fresh - 新鲜, unfertilized - 未受精, sexual organ - 性器官, atrophy - 萎缩, gonad - 生殖腺, internal secretion - 内分泌, steinach - 施泰因哈特, sexual organ - 性器官, atrophy - 萎缩.

3. Intoxication. Metchnikoff (1903, 1910). "disharmony"
大腸の活動。中腸と大腸との不調和 product of poisoning.
大腸は消化管の終端であるが、その活動は大腸菌の存在に依る。
大腸菌は消化管内で繁殖し、その死骸が大腸を汚染する。
この死骸が毒素を生じ、中毒の原因となる。
Yoghurt / metchnikoff. 乳酸菌の培養液は健康に有益である。
Zickeli (1902) "metabolism is incomplete process".
Mühlmann (1900, 10, 14) "metazoa in surface volume & excretion".
Montgomery (1906) "metabolic products are excretory processes, incomplete"

[illegible]

4. Internal factors. Chlodokowsky (1882) is multicellular

Batch 1 (1882) - 1st 12-1/2 lbs. of B + supply of 5 + 10 + 15 + 20 + 25 + 30 + 35 + 40 + 45 + 50 + 55 + 60 + 65 + 70 + 75 + 80 + 85 + 90 + 95 + 100 + 105 + 110 + 115 + 120 + 125 + 130 + 135 + 140 + 145 + 150 + 155 + 160 + 165 + 170 + 175 + 180 + 185 + 190 + 195 + 200 + 205 + 210 + 215 + 220 + 225 + 230 + 235 + 240 + 245 + 250 + 255 + 260 + 265 + 270 + 275 + 280 + 285 + 290 + 295 + 300 + 305 + 310 + 315 + 320 + 325 + 330 + 335 + 340 + 345 + 350 + 355 + 360 + 365 + 370 + 375 + 380 + 385 + 390 + 395 + 400 + 405 + 410 + 415 + 420 + 425 + 430 + 435 + 440 + 445 + 450 + 455 + 460 + 465 + 470 + 475 + 480 + 485 + 490 + 495 + 500 + 505 + 510 + 515 + 520 + 525 + 530 + 535 + 540 + 545 + 550 + 555 + 560 + 565 + 570 + 575 + 580 + 585 + 590 + 595 + 600 + 605 + 610 + 615 + 620 + 625 + 630 + 635 + 640 + 645 + 650 + 655 + 660 + 665 + 670 + 675 + 680 + 685 + 690 + 695 + 700 + 705 + 710 + 715 + 720 + 725 + 730 + 735 + 740 + 745 + 750 + 755 + 760 + 765 + 770 + 775 + 780 + 785 + 790 + 795 + 800 + 805 + 810 + 815 + 820 + 825 + 830 + 835 + 840 + 845 + 850 + 855 + 860 + 865 + 870 + 875 + 880 + 885 + 890 + 895 + 900 + 905 + 910 + 915 + 920 + 925 + 930 + 935 + 940 + 945 + 950 + 955 + 960 + 965 + 970 + 975 + 980 + 985 + 990 + 995 + 1000 + 1005 + 1010 + 1015 + 1020 + 1025 + 1030 + 1035 + 1040 + 1045 + 1050 + 1055 + 1060 + 1065 + 1070 + 1075 + 1080 + 1085 + 1090 + 1095 + 1100 + 1105 + 1110 + 1115 + 1120 + 1125 + 1130 + 1135 + 1140 + 1145 + 1150 + 1155 + 1160 + 1165 + 1170 + 1175 + 1180 + 1185 + 1190 + 1195 + 1200 + 1205 + 1210 + 1215 + 1220 + 1225 + 1230 + 1235 + 1240 + 1245 + 1250 + 1255 + 1260 + 1265 + 1270 + 1275 + 1280 + 1285 + 1290 + 1295 + 1300 + 1305 + 1310 + 1315 + 1320 + 1325 + 1330 + 1335 + 1340 + 1345 + 1350 + 1355 + 1360 + 1365 + 1370 + 1375 + 1380 + 1385 + 1390 + 1395 + 1400 + 1405 + 1410 + 1415 + 1420 + 1425 + 1430 + 1435 + 1440 + 1445 + 1450 + 1455 + 1460 + 1465 + 1470 + 1475 + 1480 + 1485 + 1490 + 1495 + 1500 + 1505 + 1510 + 1515 + 1520 + 1525 + 1530 + 1535 + 1540 + 1545 + 1550 + 1555 + 1560 + 1565 + 1570 + 1575 + 1580 + 1585 + 1590 + 1595 + 1600 + 1605 + 1610 + 1615 + 1620 + 1625 + 1630 + 1635 + 1640 + 1645 + 1650 + 1655 + 1660 + 1665 + 1670 + 1675 + 1680 + 1685 + 1690 + 1695 + 1700 + 1705 + 1710 + 1715 + 1720 + 1725 + 1730 + 1735 + 1740 + 1745 + 1750 + 1755 + 1760 + 1765 + 1770 + 1775 + 1780 + 1785 + 1790 + 1795 + 1800 + 1805 + 1810 + 1815 + 1820 + 1825 + 1830 + 1835 + 1840 + 1845 + 1850 + 1855 + 1860 + 1865 + 1870 + 1875 + 1880 + 1885 + 1890 + 1895 + 1900 + 1905 + 1910 + 1915 + 1920 + 1925 + 1930 + 1935 + 1940 + 1945 + 1950 + 1955 + 1960 + 1965 + 1970 + 1975 + 1980 + 1985 + 1990 + 1995 + 2000 + 2005 + 2010 + 2015 + 2020 + 2025 + 2030 + 2035 + 2040 + 2045 + 2050 + 2055 + 2060 + 2065 + 2070 + 2075 + 2080 + 2085 + 2090 + 2095 + 2100 + 2105 + 2110 + 2115 + 2120 + 2125 + 2130 + 2135 + 2140 + 2145 + 2150 + 2155 + 2160 + 2165 + 2170 + 2175 + 2180 + 2185 + 2190 + 2195 + 2200 + 2205 + 2210 + 2215 + 2220 + 2225 + 2230 + 2235 + 2240 + 2245 + 2250 + 2255 + 2260 + 2265 + 2270 + 2275 + 2280 + 2285 + 2290 + 2295 + 2300 + 2305 + 2310 + 2315 + 2320 + 2325 + 2330 + 2335 + 2340 + 2345 + 2350 + 2355 + 2360 + 2365 + 2370 + 2375 + 2380 + 2385 + 2390 + 2395 + 2400 + 2405 + 2410 + 2415 + 2420 + 2425 + 2430 + 2435 + 2440 + 2445 + 2450 + 2455 + 2460 + 2465 + 2470 + 2475 + 2480 + 2485 + 2490 + 2495 + 2500 + 2505 + 2510 + 2515 + 2520 + 2525 + 2530 + 2535 + 2540 + 2545 + 2550 + 2555 + 2560 + 2565 + 2570 + 2575 + 2580 + 2585 + 2590 + 2595 + 2600 + 2605 + 2610 + 2615 + 2620 + 2625 + 2630 + 2635 + 2640 + 2645 + 2650 + 2655 + 2660 + 2665 + 2670 + 2675 + 2680 + 2685 + 2690 + 2695 + 2700 + 2705 + 2710 + 2715 + 2720 + 2725 + 2730 + 2735 + 2740 + 2745 + 2750 + 2755 + 2760 + 2765 + 2770 + 2775 + 2780 + 2785 + 2790 + 2795 + 2800 + 2805 + 2810 + 2815 + 2820 + 2825 + 2830 + 2835 + 2840 + 2845 + 2850 + 2855 + 2860 + 2865 + 2870 + 2875 + 2880 + 2885 + 2890 + 2895 + 2900 + 2905 + 2910 + 2915 + 2920 + 2925 + 2930 + 2935 + 2940 + 2945 + 2950 + 2955 + 2960 + 2965 + 2970 + 2975 + 2980 + 2985 + 2990 + 2995 + 3000 + 3005 + 3010 + 3015 + 3020 + 3025 + 3030 + 3035 + 3040 + 3045 + 3050 + 3055 + 3060 + 3065 + 3070 + 3075 + 3080 + 3085 + 3090 + 3095 + 3100 + 3105 + 3110 + 3115 + 3120 + 3125 + 3130 + 3135 + 3140 + 3145 + 3150 + 3155 + 3160 + 3165 + 3170 + 3175 + 3180 + 3185 + 3190 + 3195 + 3200 + 3205 + 3210 + 3215 + 3220 + 3225 + 3230 + 3235 + 3240 + 3245 + 3250 + 3255 + 3260 + 3265 + 3270 + 3275 + 3280 + 3285 + 3290 + 3295 + 3300 + 3305 + 3310 + 3315 + 3320 + 3325 + 3330 + 3335 + 3340 + 3345 + 3350 + 3355 + 3360 + 3365 + 3370 + 3375 + 3380 + 3385 + 3390 + 3395 + 3400 + 3405 + 3410 + 3415 + 3420 + 3425 + 3430 + 3435 + 3440 + 3445 + 3450 + 3455 + 3460 + 3465 + 3470 + 3475 + 3480 + 3485 + 3490 + 3495 + 3500 + 3505 + 3510 + 3515 + 3520 + 3525 + 3530 + 3535 + 3540 + 3545 + 3550 + 3555 + 3560 + 3565 + 3570 + 3

Bühler (1904) = molecular constitution of 1893. $\text{H}_2\text{O} + \text{O}_2 + 2\text{H}_2$

[illegible]

(1888) "The Parametric and the Conjugation system"

female bird egg, the same of 16, 18 - conjugation + 274 - 241 4.5

generation and the 2^{nd} generation is configuration and parameterisation. 12.4.2011

1. $\Delta G = RT \ln a_2$ (potential) \therefore initial activity, $a_2 = 0.1$, 298.15°K .

Bernstein (1978) - growth impulse & feedback. 2071 - inhibitory rxn. 1988

4031 = 11 + 3 = fertilization inhibitor, 79 mg. 5/18 + " same, @ 45.42

Conjugation = 2. replacement process: $a \rightarrow b$ for each $a \in A$, $b \in B$, conjugate

The Eudromix 900, D8 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847

② 2nd: 11 Feb (11:1) - tissue culture; SW1000 gene insertion.

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• 3/22/94 - 2nd serum of inhibitor raised 12/22/93 serum

" 5' senescence 7 Σ 1917-1918. (3) internal factors 1918/19.

$\frac{1}{2} \times 10 = 5$ or natural death at 5 years.

$\frac{1}{2} \pi$ or $\frac{1}{2}$ dot lethal factor - . growth - . same as above.

1. homozygous combination, z.B. TT oder tt 16% (100% - 48%)

$\frac{7}{8} \times 100 = 87.5\%$ 13mm 以下、factor 7.1, 炭 + 黒土 garnet 10 #10 以上は 6.9 の combination

~~1st~~ fertilized egg + ... 2 ...

2. (2) homogeneous, infinite combination 1742. 100, 12A 25.18 12.319

定理 2. 2. 2. \mathbb{R}^n の n 次元基底 $\{e_1, \dots, e_n\}$ を用いて \mathbb{R}^n の任意のベクトル x は $x = x_1 e_1 + \dots + x_n e_n$ と表わすことができる。

2n = 46 "normal" chromosome combination = "physiologically

$$= \frac{1}{2} \pi - \cos^{-1} \cos \theta + 2\pi, \quad \text{natural } \pi \leq \theta$$

of cytological

Q5. Cellular senescence 20121308 = 3.08 = 3.08. 0.42. 1.19

$\frac{1}{2} \left(\frac{1}{\text{Kern-plasma}} + \frac{1}{\text{relation}} \right) \cdot \frac{1}{\text{(size)}} \cdot \frac{1}{\text{activity}}$

[illegible]

∴ crepidula 产 产数 - 24 条 = 25 条 constant + 30 条 14 条 1.57

si $f = \gamma + a_n z^n + \dots$, selon ~~le~~ Monot (1948, 12): $H = T_{\gamma} +$

$\{3\} = \text{younger, } p_2 + 2 + 1 - 0 = 1$ \rightarrow up ~~set~~ sentences, $2 \cdot 1 + 1 = 3$

condition 6. Differentiation. Delage (1903) "needles + cytoplasm"

differentiation 7/17/2024 2:25 Jennings (1915) ~~but~~ protozoa & fish?

Child: 1914 = protozoan, diff. + + + + + diff. + + + + +

[illegible]

	N ^o	O ₂	CO ₂
Concentration L.	19	20.96	0.04
Ans.	21.4	<u>16.50</u>	<u>4.10</u>
		- 4.46	- 4.06

CO₂ 4.06
O₂ 4.46 0.9 (normal condition)

1. The first of these is the fact that the number of cases of the disease is increasing rapidly. This is due to the fact that the disease is becoming more common in the general population.

ik ib 30, + 11. 2011. 908 wochend 40. m. J

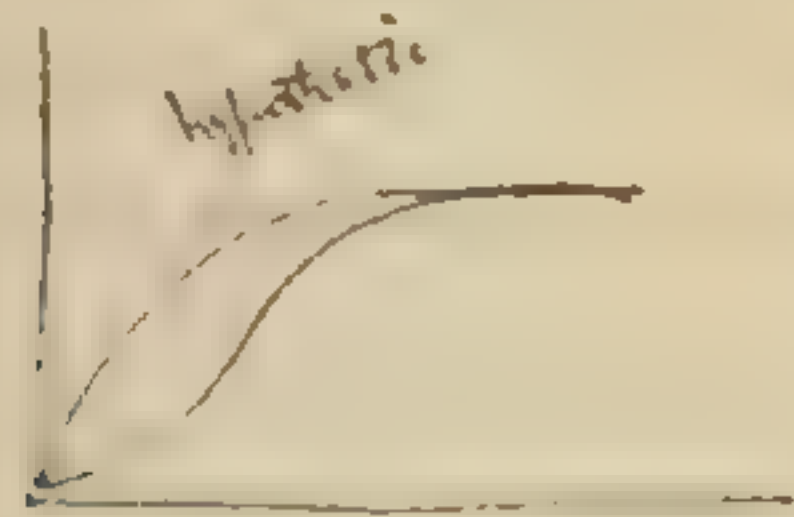
[at things or games]

5. 7. 20) 1. Hautatmung larval respiration

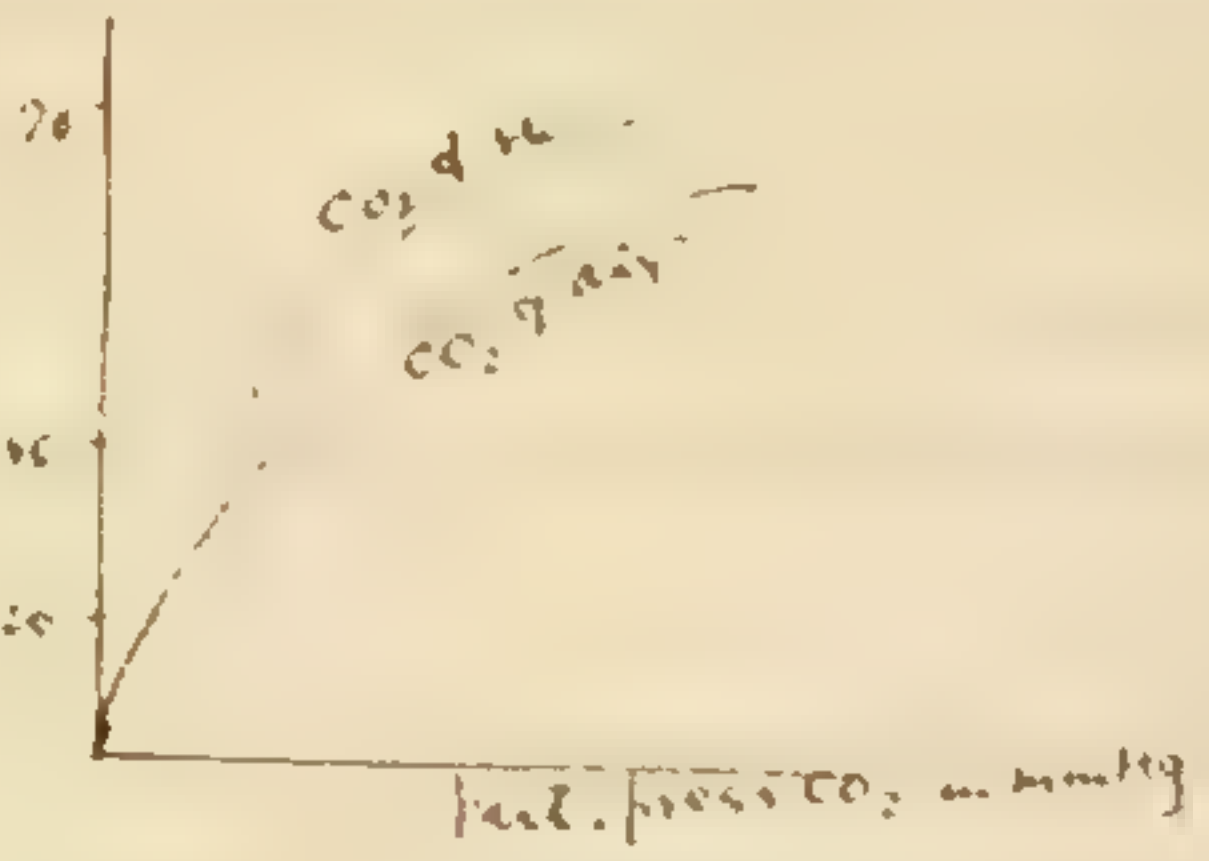
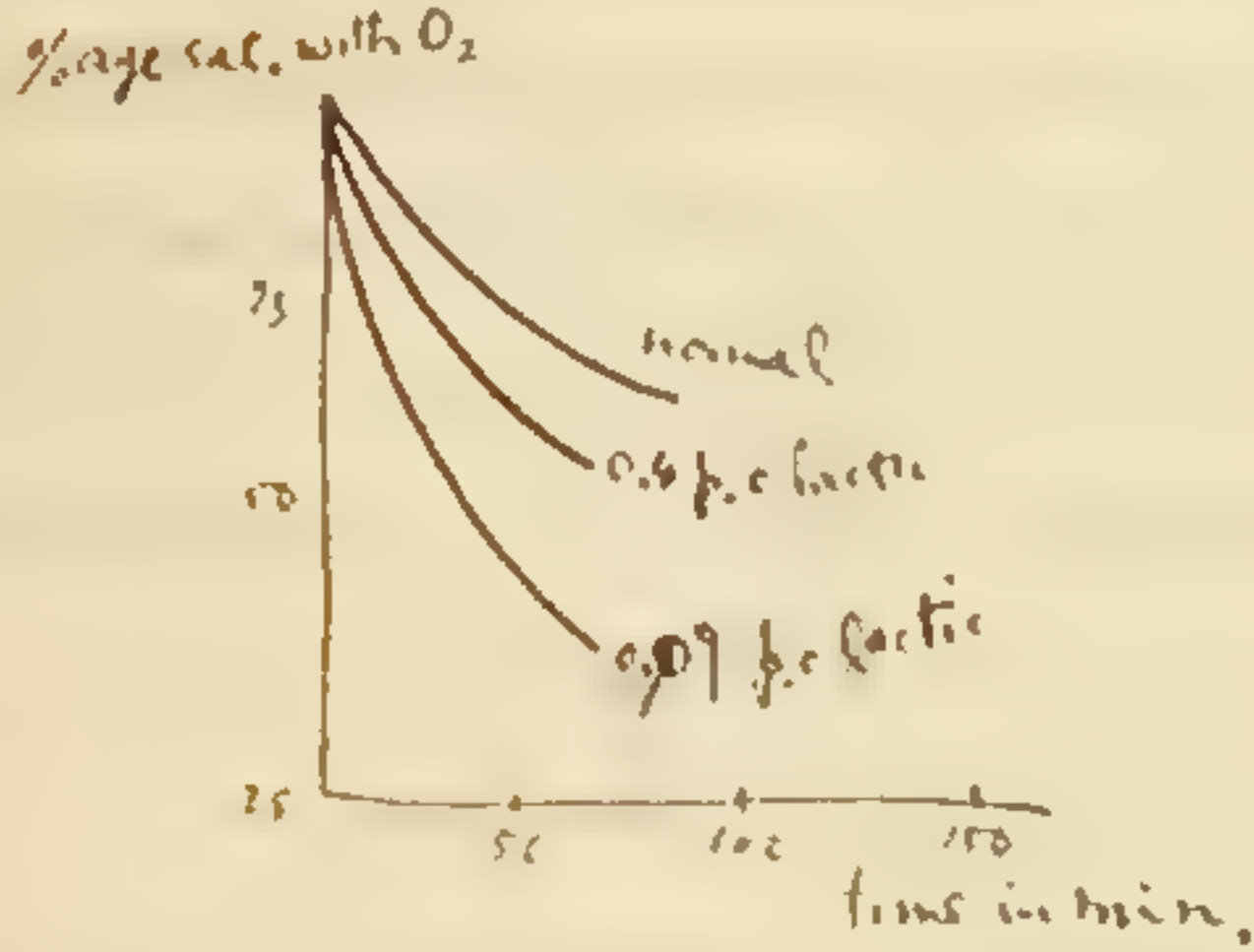
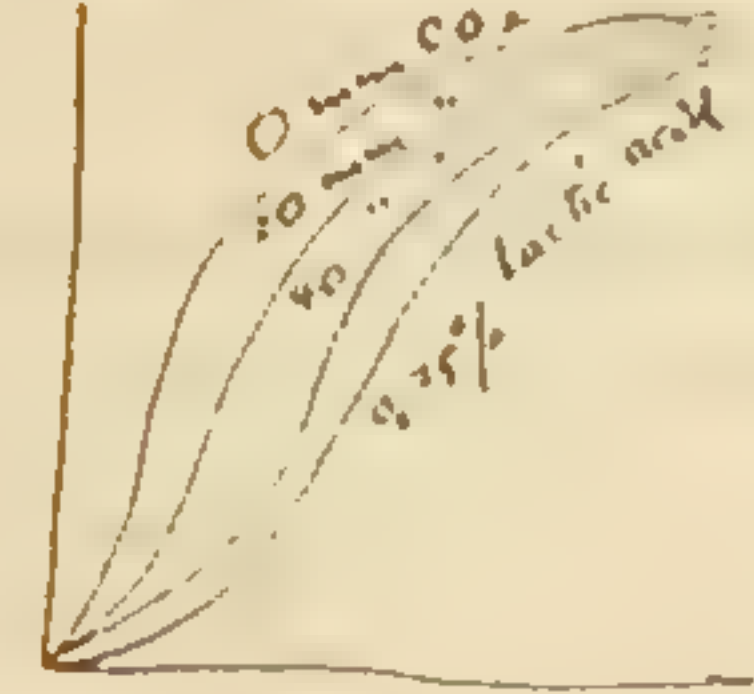
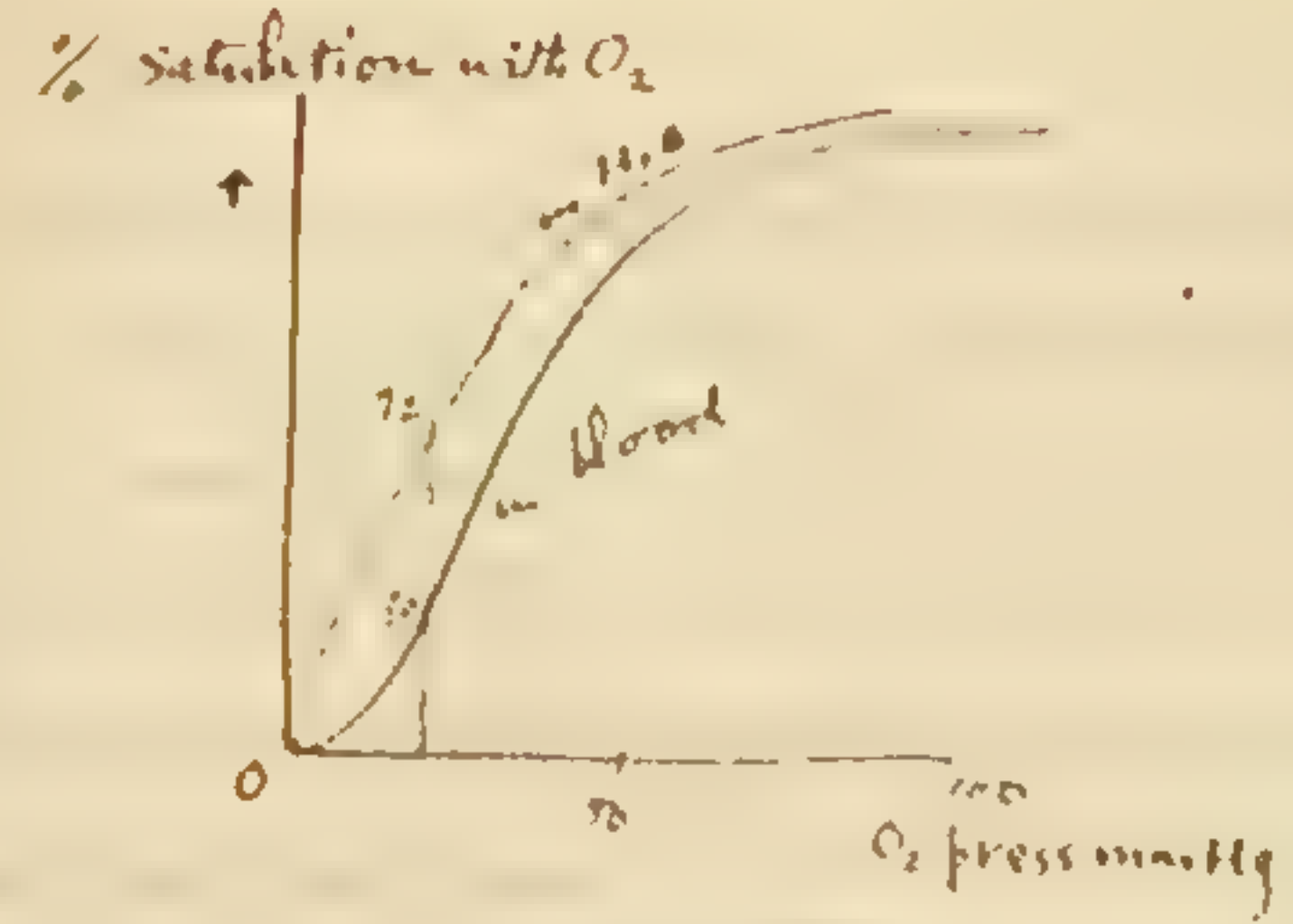
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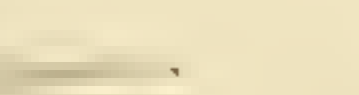
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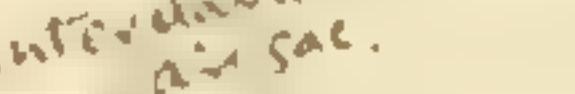
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陳昭明, 1911年2月8日, 1965年2月 附錄 552, 1965



At the same time, the *Journal of the American Medical Association* has been

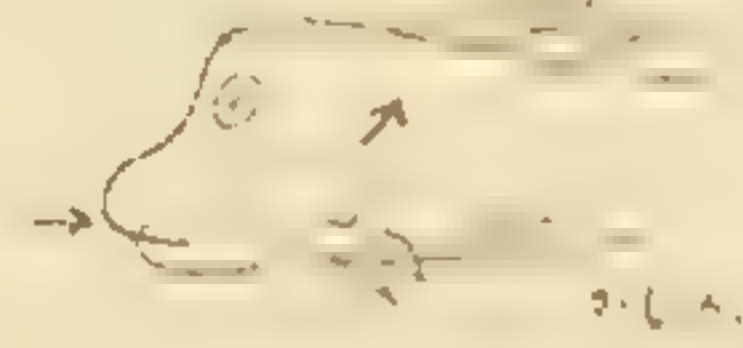


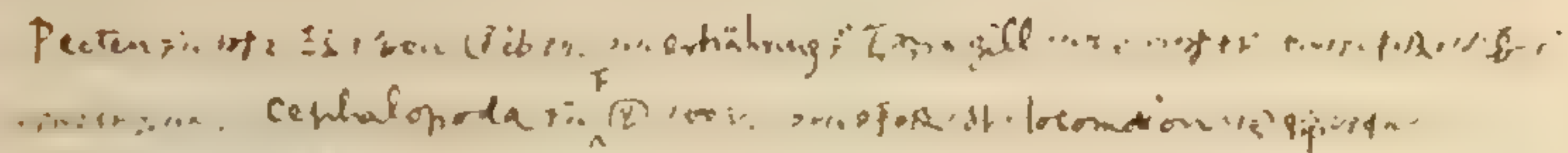
last time
etc

abdominal
muscle

[illegible]

h3h. Kiemenöffnung 0.11 Kiemenzylinder 0.12 Kiemenzylinder 0.13 Kiemenzylinder 0.14





Scutigera Pa(räupf.) - Pi = 0.12% P-partial prore.
Mehlwurm 2.2%
Räupf. 1.5-1.7%

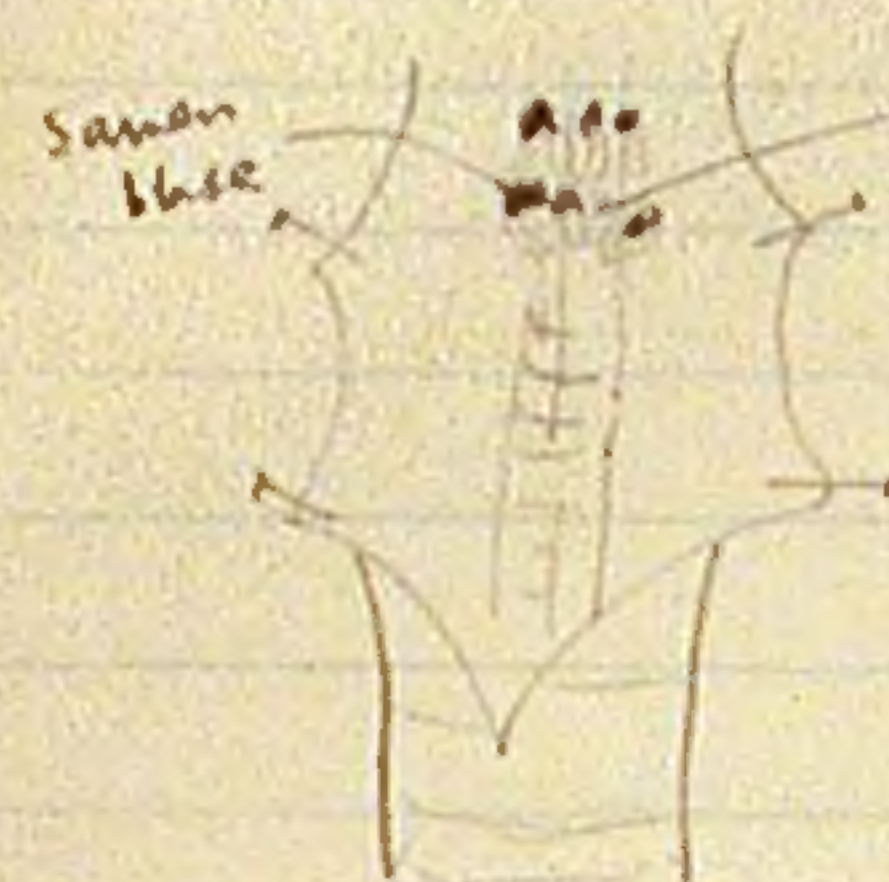
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Avidione

in ausatmung 3 1 1/2 - 2 1/2 sec. 2. Lee (1914) 3 1/2 - 4 sec. stigma " contracting
 Ideen ausatmung in report. 2 tracheat ^{2.2} 1/2 - 1 1/2 sec. luft sac 2 1/2 - 3 1/2 sec. 2
 2. 2 1/2 - 3 1/2 sec. 1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12. 13. 14. 15. 16. 17. 18. 19. 20. 21. 22. 23. 24. 25. 26. 27. 28. 29. 30. 31. 32. 33. 34. 35. 36. 37. 38. 39. 40. 41. 42. 43. 44. 45. 46. 47. 48. 49. 50. 51. 52. 53. 54. 55. 56. 57. 58. 59. 60. 61. 62. 63. 64. 65. 66. 67. 68. 69. 70. 71. 72. 73. 74. 75. 76. 77. 78. 79. 80. 81. 82. 83. 84. 85. 86. 87. 88. 89. 90. 91. 92. 93. 94. 95. 96. 97. 98. 99. 100. 101. 102. 103. 104. 105. 106. 107. 108. 109. 110. 111. 112. 113. 114. 115. 116. 117. 118. 119. 120. 121. 122. 123. 124. 125. 126. 127. 128. 129. 130. 131. 132. 133. 134. 135. 136. 137. 138. 139. 140. 141. 142. 143. 144. 145. 146. 147. 148. 149. 150. 151. 152. 153. 154. 155. 156. 157. 158. 159. 160. 161. 162. 163. 164. 165. 166. 167. 168. 169. 170. 171. 172. 173. 174. 175. 176. 177. 178. 179. 180. 181. 182. 183. 184. 185. 186. 187. 188. 189. 190. 191. 192. 193. 194. 195. 196. 197. 198. 199. 200. 201. 202. 203. 204. 205. 206. 207. 208. 209. 210. 211. 212. 213. 214. 215. 216. 217. 218. 219. 220. 221. 222. 223. 224. 225. 226. 227. 228. 229. 230. 231. 232. 233. 234. 235. 236. 237. 238. 239. 240. 241. 242. 243. 244. 245. 246. 247. 248. 249. 250. 251. 252. 253. 254. 255. 256. 257. 258. 259. 260. 261. 262. 263. 264. 265. 266. 267. 268. 269. 270. 271. 272. 273. 274. 275. 276. 277. 278. 279. 280. 281. 282. 283. 284. 285. 286. 287. 288. 289. 290. 291. 292. 293. 294. 295. 296. 297. 298. 299. 300. 301. 302. 303. 304. 305. 306. 307. 308. 309. 310. 311. 312. 313. 314. 315. 316. 317. 318. 319. 320. 321. 322. 323. 324. 325. 326. 327. 328. 329. 330. 331. 332. 333. 334. 335. 336. 337. 338. 339. 340. 341. 342. 343. 344. 345. 346. 347. 348. 349. 350. 351. 352. 353. 354. 355. 356. 357. 358. 359. 360. 361. 362. 363. 364. 365. 366. 367. 368. 369. 370. 371. 372. 373. 374. 375. 376. 377. 378. 379. 380. 381. 382. 383. 384. 385. 386. 387. 388. 389. 390. 391. 392. 393. 394. 395. 396. 397. 398. 399. 400. 401. 402. 403. 404. 405. 406. 407. 408. 409. 410. 411. 412. 413. 414. 415. 416. 417. 418. 419. 420. 421. 422. 423. 424. 425. 426. 427. 428. 429. 430. 431. 432. 433. 434. 435. 436. 437. 438. 439. 440. 441. 442. 443. 444. 445. 446. 447. 448. 449. 450. 451. 452. 453. 454. 455. 456. 457. 458. 459. 460. 461. 462. 463. 464. 465. 466. 467. 468. 469. 470. 471. 472. 473. 474. 475. 476. 477. 478. 479. 480. 481. 482. 483. 484. 485. 486. 487. 488. 489. 490. 491. 492. 493. 494. 495. 496. 497. 498. 499. 500. 501. 502. 503. 504. 505. 506. 507. 508. 509. 510. 511. 512. 513. 514. 515. 516. 517. 518. 519. 520. 521. 522. 523. 524. 525. 526. 527. 528. 529. 530. 531. 532. 533. 534. 535. 536. 537. 538. 539. 540. 541. 542. 543. 544. 545. 546. 547. 548. 549. 550. 551. 552. 553. 554. 555. 556. 557. 558. 559. 560. 561. 562. 563. 564. 565. 566. 567. 568. 569. 570. 571. 572. 573. 574. 575. 576. 577. 578. 579. 580. 581. 582. 583. 584. 585. 586. 587. 588. 589. 590. 591. 592. 593. 594. 595. 596. 597. 598. 599. 600. 601. 602. 603. 604. 605. 606. 607. 608. 609. 610. 611. 612. 613. 614. 615. 616. 617. 618. 619. 620. 621. 622. 623. 624. 625. 626. 627. 628. 629. 630. 631. 632. 633. 634. 635. 636. 637. 638. 639. 640. 641. 642. 643. 644. 645. 646. 647. 648. 649. 650. 651. 652. 653. 654. 655. 656. 657. 658. 659. 660. 661. 662. 663. 664. 665. 666. 667. 668. 669. 670. 671. 672. 673. 674. 675. 676. 677. 678. 679. 680. 681. 682. 683. 684. 685. 686. 687. 688. 689. 690. 691. 692. 693. 694. 695. 696. 697. 698. 699. 700. 701. 702. 703. 704. 705. 706. 707. 708. 709. 710. 711. 712. 713. 714. 715. 716. 717. 718. 719. 720. 721. 722. 723. 724. 725. 726. 727. 728. 729. 730. 731. 732. 733. 734. 735. 736. 737. 738. 739. 740. 741. 742. 743. 744. 745. 746. 747. 748. 749. 750. 751. 752. 753. 754. 755. 756. 757. 758. 759. 760. 761. 762. 763. 764. 765. 766. 767. 768. 769. 770. 771. 772. 773. 774. 775. 776. 777. 778. 779. 780. 781. 782. 783. 784. 785. 786. 787. 788. 789. 790. 791. 792. 793. 794. 795. 796. 797. 798. 799. 800. 801. 802. 803. 804. 805. 806. 807. 808. 809. 810. 811. 812. 813. 814. 815. 81

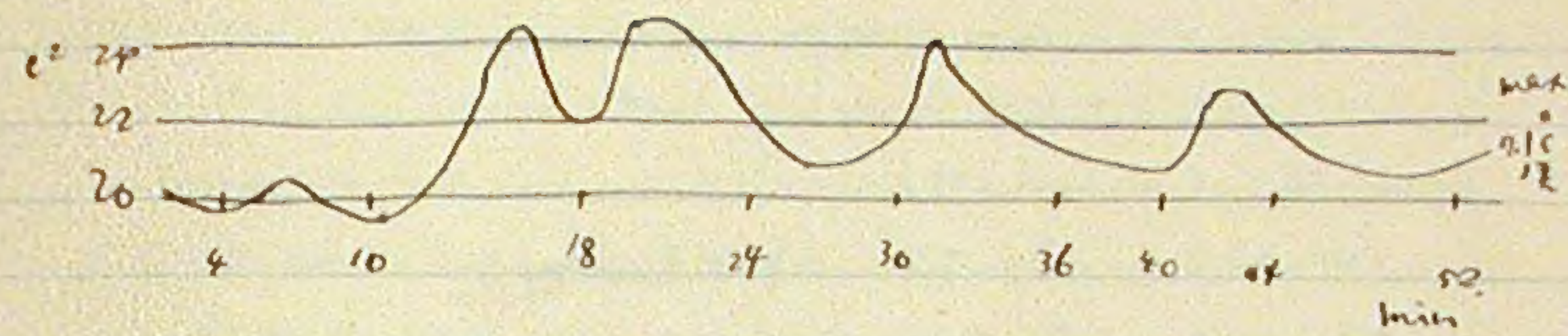
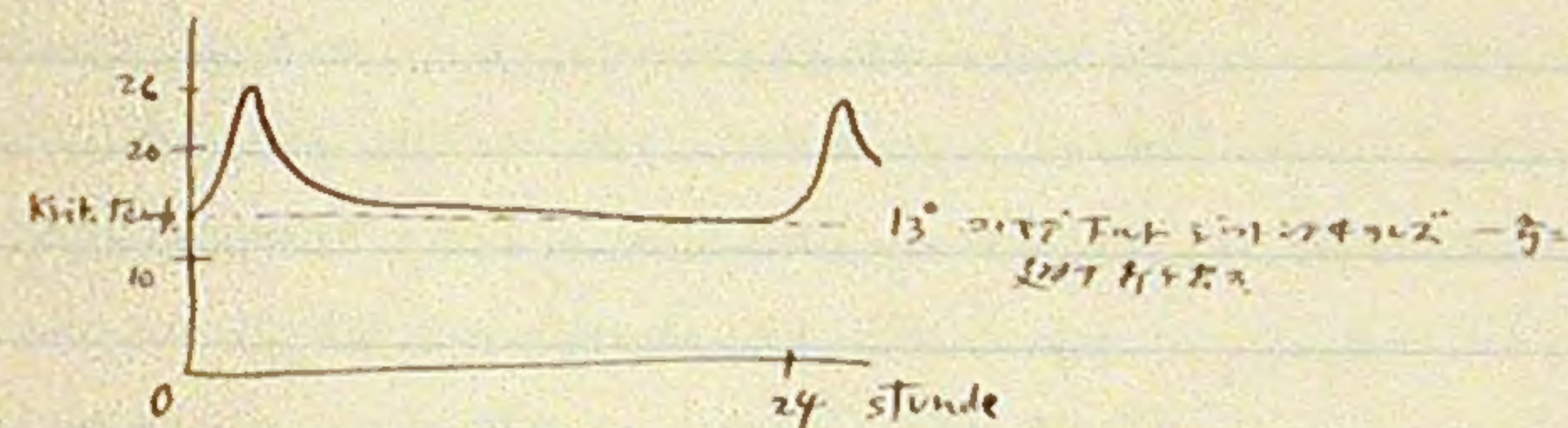
Lee (1924) = 24. CO₂ + lactic acid → blutpH = 7,2-7,4
 disphnoe = 22-25. centrum / zell, pH 7,2-7,4. ~~22-25~~ 22-25. vertebrate
 24. Dauerstoffmangel mit CO₂ + 2 H₂O → 2 H₂ + 2 H₂O → 2 H₂ + 2 H₂O
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- $\dot{V}O_2 = \dot{V}_I - \dot{V}_{E,CO_2}$. \therefore Atmungsgaswechsel + $\dot{V}O_2 = \dot{V}_I + CO_{2,reguliert}$
 10 l/min + 4 l/min = 14 l/min. $\dot{V}O_2$, VII-XIII 27... Morosenide Prüfe r n

[illegible][illegible]

Feb. 9.

153 blank

[illegible]

poikilothermal animal, 1#12, maximum

| | Raum t. | Tier. | überflutp |
|---------------|---------|-------|-----------|
| earthworm | 13.3 | 14.7 | 1.3 |
| Blutigel | 13.3 | 13.9 | 0.6 |
| " " | 16.7 | 22.2 | 5.5 |
| schmetterling | 25.6 | 27.0 | 1.4 |
| maiskäfer | 25.6 | 27.0 | 1.4 |
| scorpion | 25.3 | 26.1 | 0.8 |
| Krabe | 22.2 | 22.2 | — |
| glibbe | 26.7 | 26.1 | - 0.6 |
| Donato (size) | 27.6 | 37.7 | 10.3 |
| frog | { 6.7 | 8.7 | 2.2 |
| | { 14.4 | 14.4 | — |
| | { 16.7 | 17.2 | 0.5 |

(20.19.10 German BDD 2015)
15.12.10.12

homeiothermal animal, 1412

4.4. 30.4 馬 37.6 白 37.7 冬 39.6 孫 32.3

owl ~~41.4~~ 41.5 ht 40.1
90.22

3.6

4.7

5.8

43

42

41

40

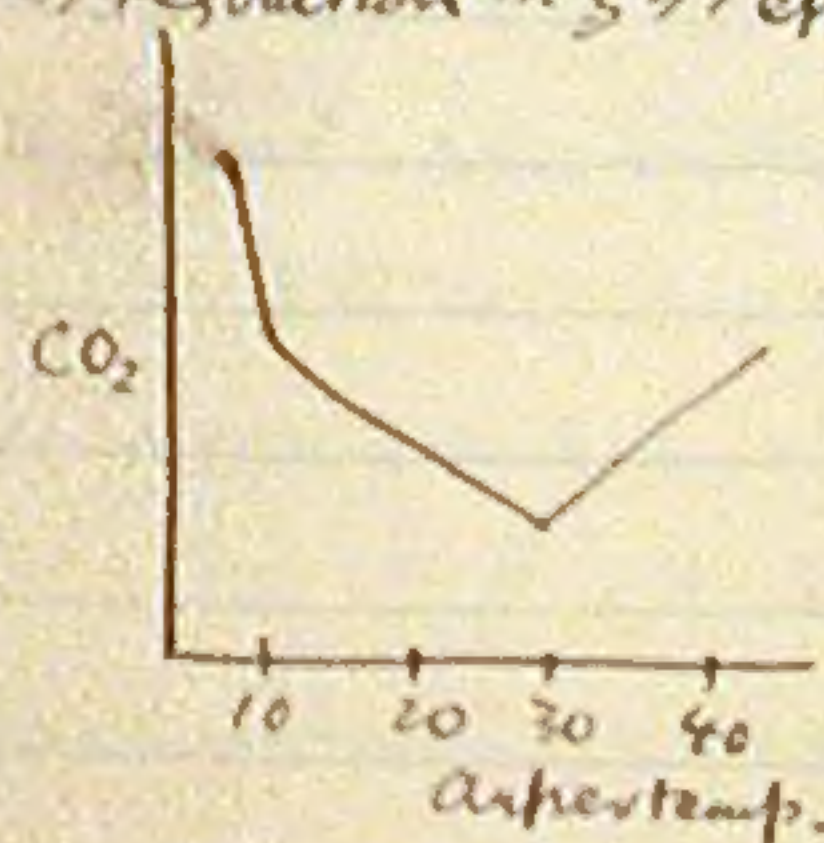
12 am 12 12 1/2

star

fazan (90)

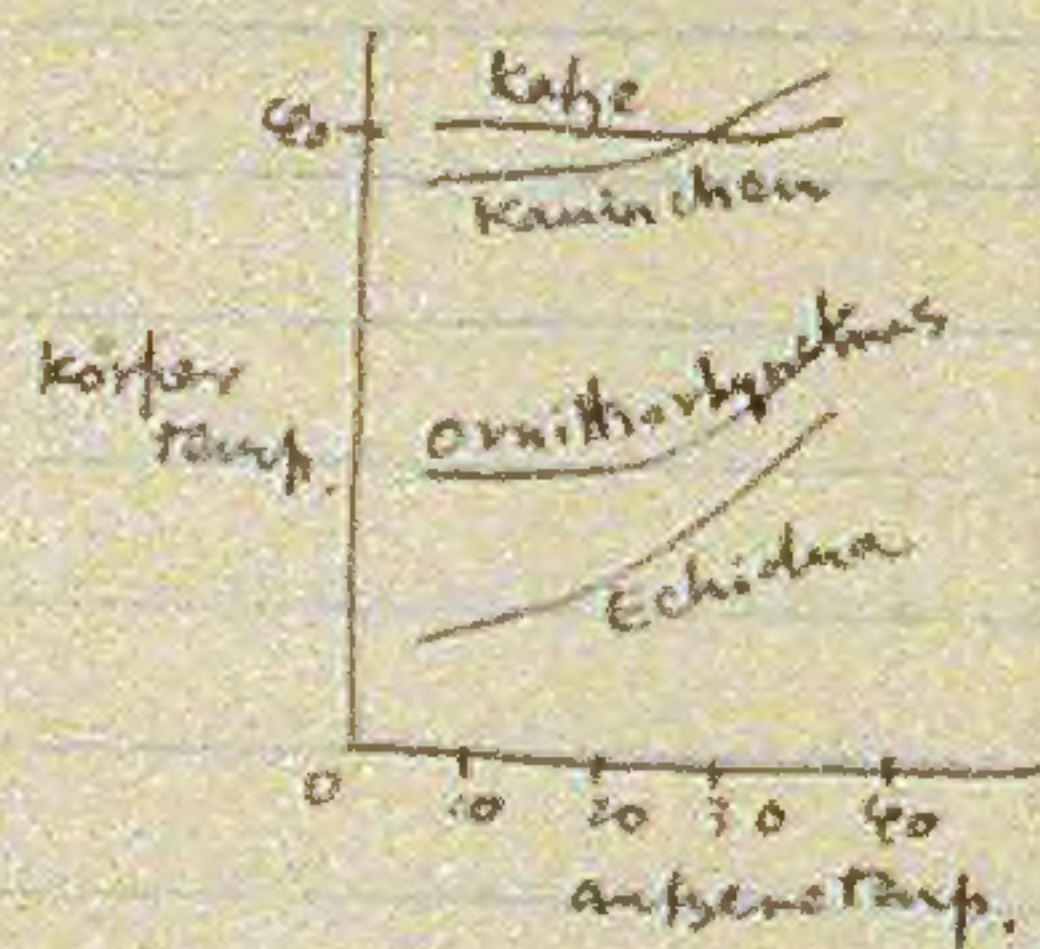
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 91000 92000 93000 94000 95000 96000 97000 98000 99000 100000

[illegible][illegible]

74番12. c.c. corpus striata, 中央部(外背)より。
21 C.S., 音読 = 水 circulate 入 take 入て 注
イ中論(1)の文。付法7834 7534と云。
21 center " - 心, blutreiz 点 blut, 温度, 湿度 =
格 7 新 8 新 9 新 21 + 3 = 21 / subordinati

Wärmeregulation (1814). ~~1814~~ poikilothermal animal T_{co_2} $\approx 70-80^\circ$
 1814 T_{co_2} $\approx 70-80^\circ$ T_{co_2} \approx constant. T_{co_2} $\approx 10-22.5^\circ$ (1814).
 1814 T_{co_2} \approx heat production \approx T_{co_2} \approx const. $\approx 10-22.5^\circ$ (1814).
 1814 T_{co_2} \approx poikilothermic negative T_{co_2} \approx principle
 1814 T_{co_2} \approx T_{co_2} \approx Echidna T_{co_2} \approx constant $\approx 70-80^\circ$ (1814).
 1814 T_{co_2} \approx T_{co_2} \approx Echidna T_{co_2} \approx chemical



腹，虎爪拿一先=IF107。犬，猫，猴，人，牛，马，足103-07。人100。马。
甲：蛇，牛，羊，猪，IF110。犬100+IF108。虎103。wärmespeicher 700

[illegible]